

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P321206

Luminaire Tested: **GAN-SA2C-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9769 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

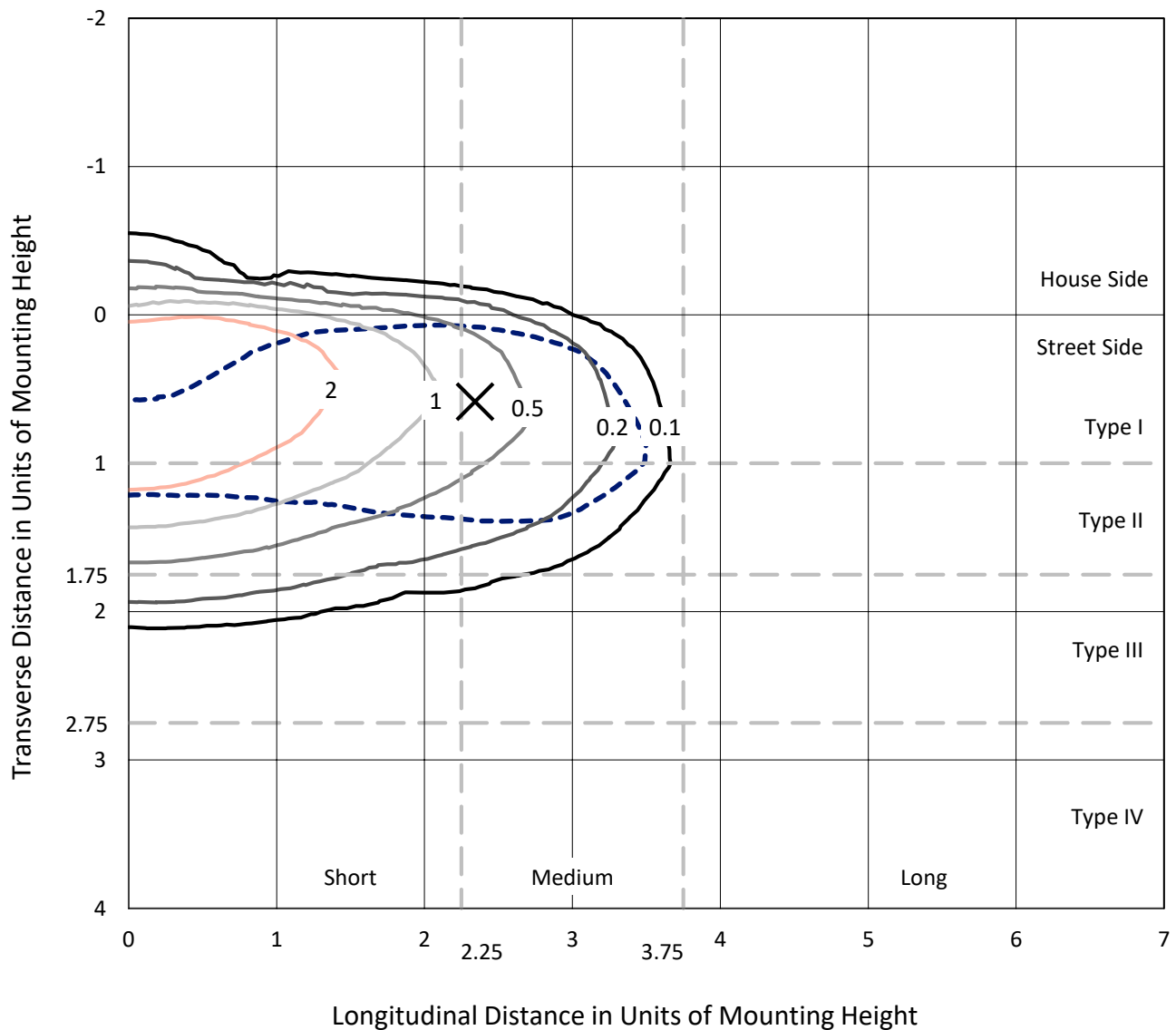
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

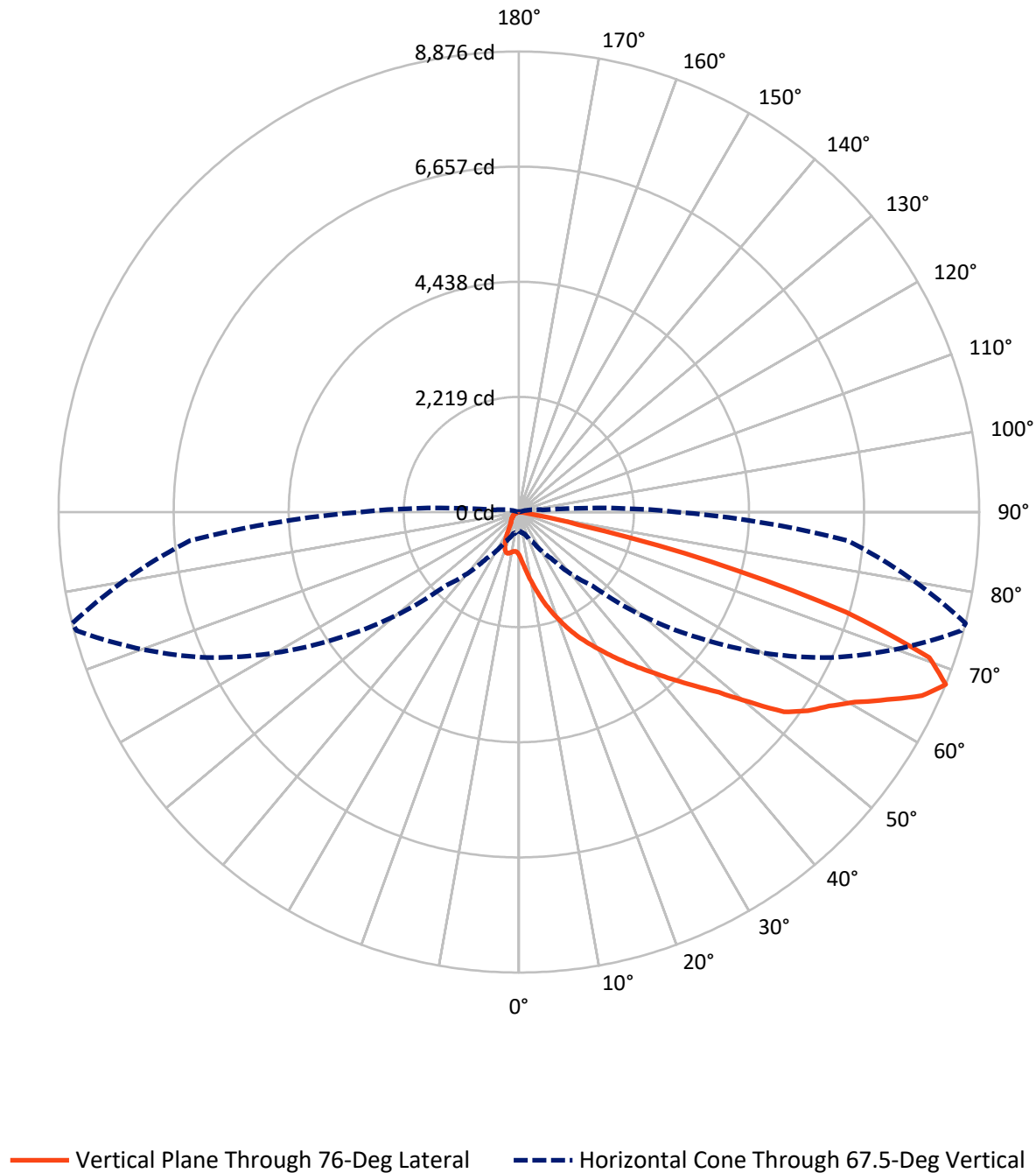
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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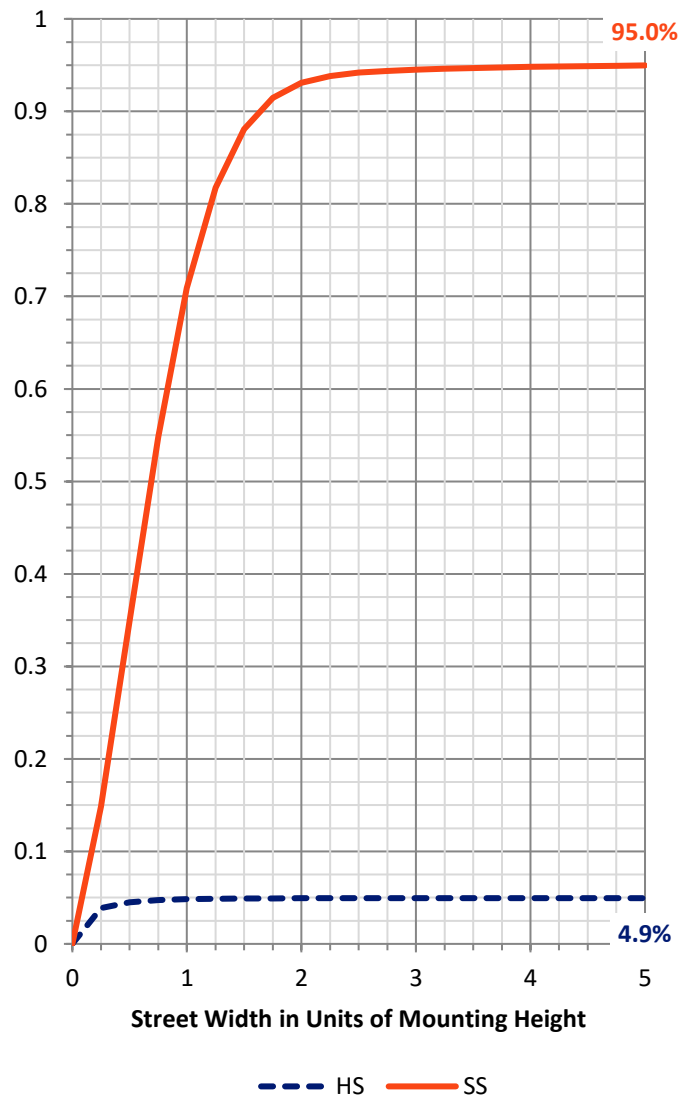
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	485.1	0.0	485.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	9283.9	0.0	9283.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	9769.0	0.0	9769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	1.1
10°-20°	408.5	4.2
20°-30°	831.1	8.5
30°-40°	1442.6	14.8
40°-50°	2038.2	20.9
50°-60°	2311.4	23.7
60°-70°	1917.1	19.6
70°-80°	694.4	7.1
80°-90°	22.5	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9769.0	100.0
0°-180°	9769.0	100.0

Coefficient of Utilization



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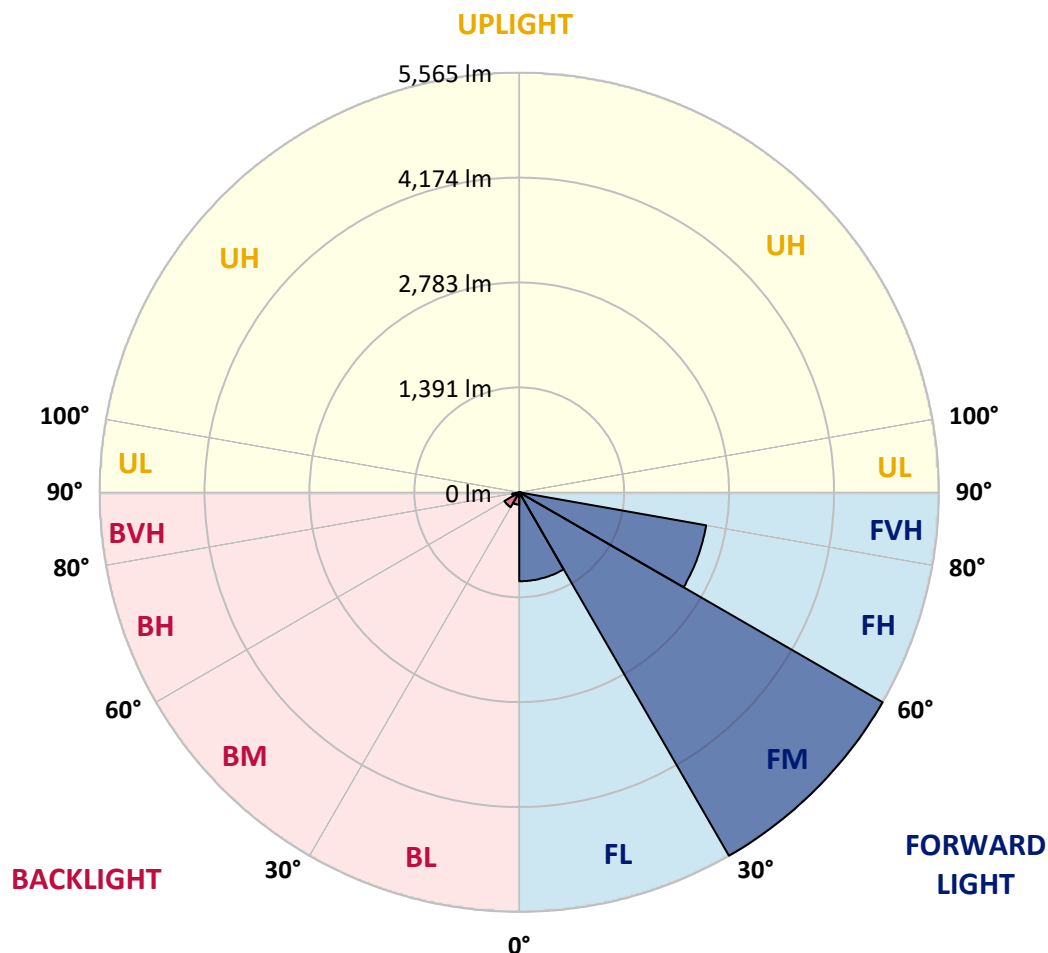
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1179.1	12.1			
FM	(30°-60°)	5565.2	57.0			
FH	(60°-80°)	2517.8	25.8			G2/5000
FVH	(80°-90°)	21.8	0.2			G1/100
BL	(0°-30°)	163.6	1.7	B1/500		
BM	(30°-60°)	227.0	2.3	B1/1000		
BH	(60°-80°)	93.8	1.0	B0/110		G0/110
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7
2.5°	1237.0	1209.2	1215.6	1197.7	1165.1	1098.4	1041.4	987.5	924.6	922.4	870.6
5°	1668.1	1644.5	1641.6	1605.2	1546.1	1432.7	1322.2	1196.4	1056.0	1045.7	935.7
7.5°	2059.3	2040.5	2033.6	1990.4	1880.4	1770.0	1626.1	1441.2	1221.6	1202.8	1023.5
10°	2359.8	2350.8	2352.5	2321.7	2227.5	2124.8	1936.0	1700.2	1409.6	1380.4	1128.8
12.5°	2587.5	2589.7	2605.1	2586.2	2533.6	2457.4	2255.8	1976.3	1617.6	1577.8	1249.0
15°	2754.9	2765.6	2793.8	2817.4	2813.5	2747.6	2562.7	2256.7	1838.5	1794.4	1383.0
17.5°	2863.2	2875.2	2916.3	2968.5	3016.4	3001.0	2858.9	2527.2	2061.9	2011.0	1526.4
20°	2958.2	2972.3	3016.4	3085.3	3174.8	3194.1	3100.8	2789.6	2284.9	2222.8	1674.5
22.5°	3164.1	3163.7	3190.6	3230.9	3316.1	3365.7	3306.6	3033.1	2505.3	2440.7	1825.6
25°	3536.5	3522.4	3513.0	3481.3	3500.1	3530.9	3498.0	3260.8	2727.1	2661.6	1978.8
27.5°	3979.1	3987.7	3911.5	3826.3	3760.4	3728.7	3674.8	3471.9	2940.2	2868.3	2128.7
30°	4446.1	4448.7	4358.8	4250.1	4104.9	3984.7	3891.4	3673.5	3159.4	3081.1	2274.2
32.5°	4867.3	4850.6	4761.6	4613.5	4430.3	4295.0	4101.1	3898.6	3391.4	3315.6	2436.0
35°	5201.2	5181.5	5073.2	4938.3	4748.3	4612.2	4378.9	4123.4	3635.4	3561.3	2598.2
37.5°	5445.2	5422.0	5310.7	5172.1	5008.1	4928.9	4701.2	4367.8	3901.6	3822.0	2769.0
40°	5529.9	5509.8	5440.0	5338.6	5206.7	5188.8	5043.2	4649.0	4191.4	4106.7	2962.5
42.5°	5479.4	5459.7	5434.9	5400.6	5345.8	5363.0	5366.0	4969.6	4513.3	4429.8	3176.1
45°	5279.1	5261.5	5287.2	5337.3	5405.3	5490.1	5660.5	5314.2	4872.9	4783.8	3423.1
47.5°	4984.2	4971.3	5042.4	5167.4	5366.4	5600.1	5929.7	5676.3	5276.5	5193.9	3731.3
50°	4564.7	4562.5	4704.6	4932.8	5238.8	5653.2	6207.9	6088.1	5837.2	5750.3	4159.7
52.5°	3911.5	3915.8	4195.3	4560.4	5015.0	5617.2	6386.9	6617.1	6489.6	6399.3	4530.9
55°	3289.5	3315.2	3513.4	4039.9	4671.7	5483.7	6448.5	6864.1	6849.6	6764.0	4737.2
57.5°	2680.4	2727.1	2918.0	3409.8	4170.4	5175.9	6414.7	6971.1	7117.5	7052.0	5009.4
60°	2020.4	2041.8	2261.8	2721.5	3527.1	4614.3	6169.4	7029.3	7483.9	7438.6	5404.5
62.5°	1285.4	1338.9	1534.1	1977.6	2746.3	3834.4	5755.9	7028.5	7942.4	7967.2	5914.3
65°	677.2	739.7	843.2	1225.5	1887.2	2963.4	5134.0	6962.6	8504.8	8539.5	6312.8
67.5°	365.1	383.1	437.9	636.1	1094.5	2007.5	4220.1	6637.3	8830.6	8876.4	6368.4
70°	267.1	276.9	297.5	351.9	550.9	1166.0	3079.4	5899.7	8410.6	8393.5	5658.3
72.5°	205.0	220.4	235.9	257.7	316.8	622.4	1917.2	4619.9	6710.9	6597.9	4229.5
75°	161.8	164.4	186.2	205.9	237.6	354.4	851.4	2690.7	4096.0	3828.4	2193.3
77.5°	129.3	131.0	143.8	160.9	190.9	232.9	263.7	1058.6	1307.7	1166.8	476.0
80°	76.6	80.9	107.0	124.1	158.4	146.8	96.3	229.9	204.2	184.9	80.0
82.5°	42.8	46.2	60.4	98.0	110.4	70.2	47.9	62.1	47.9	46.7	22.7
85°	0.0	2.1	39.0	60.8	44.9	15.4	20.1	20.5	14.1	13.3	9.0
87.5°	0.0	0.0	12.0	11.6	1.7	2.6	4.7	6.8	5.6	5.6	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7	828.7
2.5°	845.0	821.8	778.2	735.4	699.4	669.9	643.4	632.6	624.1	622.8	616.0
5°	882.6	836.0	752.5	684.0	638.2	605.7	577.9	560.7	547.5	542.3	537.6
7.5°	939.6	868.9	749.1	670.3	615.5	560.7	509.4	453.7	419.1	405.8	398.1
10°	1008.9	912.6	761.9	666.5	570.6	455.0	369.8	299.2	270.5	261.1	258.5
12.5°	1089.8	967.0	784.2	642.5	474.7	323.2	255.1	231.1	224.7	221.7	221.7
15°	1182.7	1026.5	800.0	573.2	351.0	244.4	220.9	209.7	202.9	199.0	199.5
17.5°	1277.7	1084.7	792.3	472.6	259.0	217.4	199.9	187.9	178.5	174.6	173.8
20°	1373.6	1138.6	749.5	351.9	219.2	197.3	177.6	164.4	155.0	151.1	150.2
22.5°	1472.9	1184.4	674.2	258.1	196.9	175.1	155.8	142.5	133.5	130.1	128.4
25°	1569.6	1221.6	568.9	208.9	175.9	154.1	135.7	123.3	115.1	111.7	111.3
27.5°	1660.0	1245.2	446.9	184.5	157.5	135.3	118.6	107.4	100.6	98.0	97.6
30°	1741.3	1247.3	330.5	166.5	141.3	119.0	103.6	93.7	87.7	85.2	84.3
32.5°	1823.5	1229.3	240.6	150.2	126.3	104.9	89.9	82.2	77.9	75.8	75.8
35°	1900.9	1187.8	187.5	136.1	111.7	91.2	79.2	73.6	71.1	68.9	68.9
37.5°	1976.7	1128.3	159.2	123.7	98.0	79.6	69.8	66.3	64.2	62.1	62.1
40°	2053.8	1053.4	144.7	112.1	86.9	70.6	62.1	59.1	56.9	55.2	54.8
42.5°	2148.4	967.0	135.3	101.4	77.0	62.5	54.8	51.4	49.7	47.9	47.1
45°	2257.9	892.5	127.6	90.7	68.9	55.6	47.5	44.1	41.5	39.4	39.0
47.5°	2415.9	838.5	117.3	79.2	61.2	48.4	41.1	37.2	33.4	31.2	30.8
50°	2617.5	794.0	104.0	68.9	53.5	41.1	34.2	29.5	26.1	24.0	24.0
52.5°	2717.7	735.8	92.0	59.9	44.9	34.7	27.8	22.3	20.5	18.4	18.4
55°	2757.9	691.3	80.0	50.9	37.2	28.7	21.8	17.1	15.8	14.6	14.1
57.5°	2870.9	678.5	69.8	43.2	30.8	22.7	16.7	12.8	12.0	10.3	10.3
60°	3052.8	684.9	60.4	36.8	24.8	17.5	12.4	9.8	9.0	7.3	7.3
62.5°	3249.3	676.7	50.9	31.7	19.3	12.8	8.6	7.3	7.3	4.3	3.9
65°	3287.0	602.7	43.7	26.1	15.0	9.4	5.6	4.7	6.4	0.9	0.0
67.5°	3050.7	467.4	37.7	20.1	11.1	7.3	4.3	2.1	5.6	0.0	0.0
70°	2439.4	297.1	30.4	14.6	8.6	6.0	3.4	0.9	4.3	0.0	0.0
72.5°	1725.0	172.5	24.0	10.3	7.3	4.7	2.6	0.0	2.6	0.0	0.0
75°	872.4	92.0	15.0	7.7	5.6	3.4	1.7	0.0	0.4	0.0	0.0
77.5°	188.8	42.8	9.4	5.6	3.9	2.1	0.9	0.0	0.0	0.0	0.0
80°	41.1	18.8	6.0	3.4	2.1	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	15.0	9.8	3.0	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.1	5.1	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	1.7	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)